

MARCH 1925

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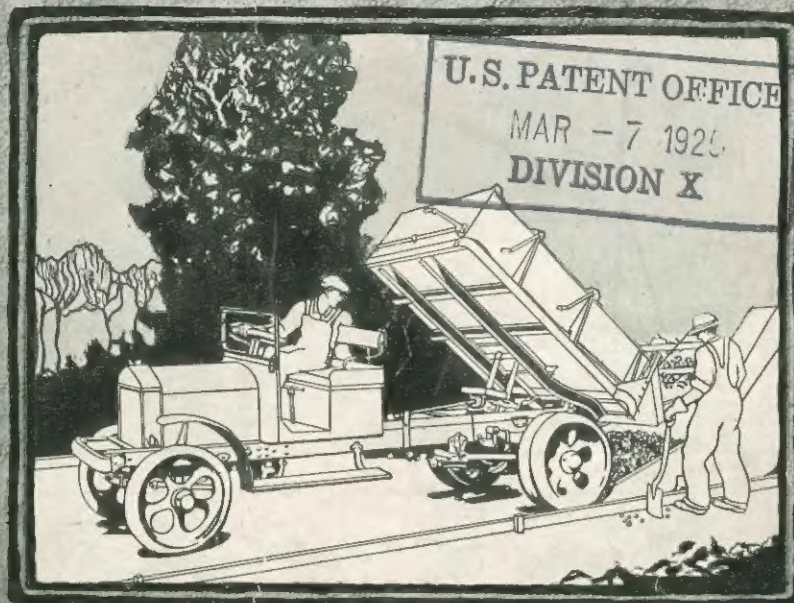
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DIV. 47

CATALOG No. 140



HEIL

Bodies and Hoists

Steel Dump Bodies for hauling sand, gravel, coal, ashes, rubbish, asphalt, or any bulk material. Compartment Truck Tanks of all capacities. Heil Hydro-Hoists, Mechanical Hoists, Hi-Lifts, and Hand Hoists for motor trucks.

THE HEIL CO.

MILWAUKEE

WISCONSIN



The Home of Heil Quality

MILWAUKEE is noted for its skilled workmen in iron and steel. Heil workmen are skilled — they have available the most improved machinery to do good work. The modern production facilities of the Heil Co., founded in 1901, have enabled it to place on the market the highest grade line of motor truck dumping equipment.

The five shops of the Heil Co. have an area of more than 150,000 square feet of floor space, every part of which is covered by electric traveling cranes. And there is ample room for future expansion in the 20-acre tract owned by the Heil Co.

Every Hydro Dumping Unit is manufactured complete in the Heil shops; machine shop, welding shop, structural and plate shop all contribute to turn out a finished product of distinctive Quality. The importance of buying Hoists and Bodies as a complete unit from a well-established and completely-equipped company cannot be over-estimated. Absolute co-ordination in manufacture brings about maximum service in the product.

The aim of The Heil Co. is to furnish the highest Quality Dumping Equipment for motor trucks. No pains are spared to accomplish this. Heil Engineers are continually designing, improving and developing new ways and means to transport and unload materials more economically and efficiently.

Twenty-three years of Experience is our Best Guarantee. We invite you to judge Heil equipment on a basis of performance and merit — our prices we know are reasonable and right.

Let Heil Build Your Next DUMP BODY UNIT

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Factory and General Offices:
Milwaukee, Wisconsin

THE HEIL CO.

Factory Branches and Warehouses:
THE HEIL CO., Chicago, Illinois.
THE HEIL CO., Philadelphia, Pa.

Distributors:

BACON MATHESON FORGE CO.
35 West Lander Street
Seattle, Wash.

GENERAL AUTO TRUCK CO.
21st Street and Virginia Ave.
Washington, D. C.

KRANZ AUTOMOTIVE BODY CO.
3032 Gravois Avenue
St. Louis, Mo.

NEW MEXICO ROAD EQUIP. CO.
117 East Third Street
Roswell, New Mexico

GUSTAV SCHAEFER WAGON CO.
4166 Lorain Avenue
Cleveland, Ohio

SHOP OF SIEBERT
614 Southard Avenue
Toledo, Ohio

STEFFEN VAN STEENWYK CO.
612 West Seventh Street
Sioux City, Iowa

SPINKS SUPPLY COMPANY
476 Union Avenue
Memphis, Tenn.

H. P. WILSON COMPANY
17th and Blake Streets
Denver, Colo.

HEIL NORTHWESTERN SALES CO.
Pelham and St. Anthony Aves.
Saint Paul, Minn.

LEONHARDT WAGON WORKS
412 East Saratoga Street
Baltimore, Md.

MAYER BODY CORPORATION
6459 Frankstown Avenue
Pittsburgh, Pa.

MODERN VEHICLE COMPANY
437 Fourth Street
San Francisco, Calif.

MOTIVE PARTS CORPORATION
796 Tenth Avenue
New York, N. Y.

ENGINEERING EQUIPMENT CO.
316 West Franklin Street
Lansing, Mich.

General Specifications

Gauge of Steel: Heil Bodies are manufactured of No. 10, No. 8 or $\frac{3}{16}$ steel sheets of the greatest width.

Tapered Width: All Heil Bodies are tapered, being 3" wider at the rear than at the front, so that any load will easily release itself and slide out quickly.

Body Rivets: On Heil Bodies all rivets are driven hot and countersunk on the inside with the full round heads on the outside.

No Spreading: The rear end of Heil Bodies are designed to prevent spreading between tail gate supports.

Operating Mechanism: The tail gate controlling device is so designed that the hooks always catch the gate and close it tightly. The hooks also act as pins in the lower tail gate hinges when the tail gate is suspended. By placing the operating rods under the mud guards, the appearance of the body is improved; the rods are also protected. The operating handle is conveniently located. It is turned out so that fingers will not be caught.

Crowned Front End: Bodies are made with front end higher than sides to prevent material from spilling on cab and truck.



S. S. C. means:
Square corners, Straight sides,
and front end Crowned.



S. F. C. applies to a Heil Body
with Straight corners, Flared
sides, and front end Crowned.



R. S. C. Bodies have
Round corners, Straight sides,
with front end Crowned.



R. F. C. signifies
Round corners, Flared sides,
with front end Crowned.

Top Channel Edge: The channel edge on Heil Bodies stiffens the sides and protects the top edge under steam shovel service.

Combination Bodies: Heil is the builder of the original combination steel dump body. Body Models "4 in 1," "3 in 1" and "2 in 1" are Heil Trade Names registered at the U. S. Patent Office. So also are the names of the standard dump bodies, models SSC, SFC, RSC and RFC.

Painting: All Heil Bodies and Hoists are painted one coat lead at the factory, unless otherwise specified.

Tail Gates: Tail gates are furnished in standard sizes. They are made from templates and are interchangeable.

Butt Strap: The two sheets which form the floor of the body are joined with a butt strap — a plate 4" wide. No chance for floor to crack or break apart.

How to Order Heil Hoists and Dump Bodies

The following information is required when placing an order for Heil Bodies:

1. Order Bodies by model number.
2. Capacity of Body.
3. Frame width back of cab.
4. Frame width at rear cross member.
5. Material to be handled.
6. Make of Hoist.
7. Make and model of Truck.
8. Specify any extras such as coal door in tail gate, swinging partitions, hinged sides, gravel spreading device, etc.

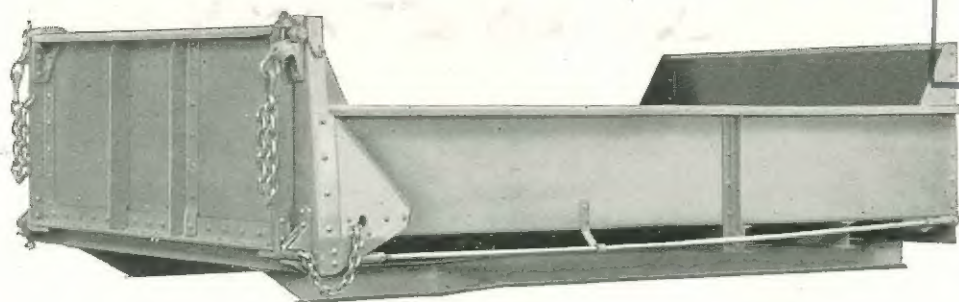
(All Price Information Tabulated on Separate Price List.)

BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS

U.S. PATENT OFFICE

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DIVISION X



Heil SSC No. 10—Without Mud-Guards

MUCH of the Heil Body popularity is built up around this Model SSC No. 10 Steel Dump Body. It is the fundamental unit of Heil design and construction. The straight sides and square corners of this body appeal to large fleet-owning contractors and trucking men who want an all-around serviceable dump body. The photograph shows the body fitted with a spreader device which regulates the opening of the tail gate for gravel and asphalt spreading. There is an extra charge for this attachment. The square corners of this body make it possible to load cement blocks, boxes, crates and all square-cornered material without waste of space. The straight sides insure an even spread of gravel, crushed rock, trap, etc.

Body Specifications

Bodies are stiffened with one or more angles on each side riveted to the extended cross member of the subframe and fitted into the channel edge at top to prevent spreading. Double-acting tail gate. The front end and tail gate are 3" to 4" higher than the sides and can be built higher as shown above to take extension sides at additional charge.

Body Dimensions

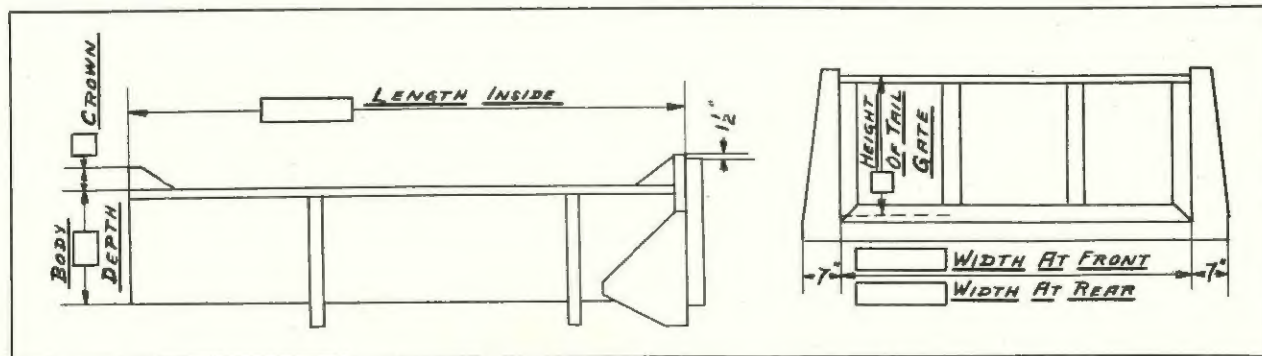
Lengths—8', 8'6", 9', 9'6", 10', 10'6", 11', 11'6", 12'.

Widths—4'6", 5', 5'6", 6'.

Approximate Body Weights

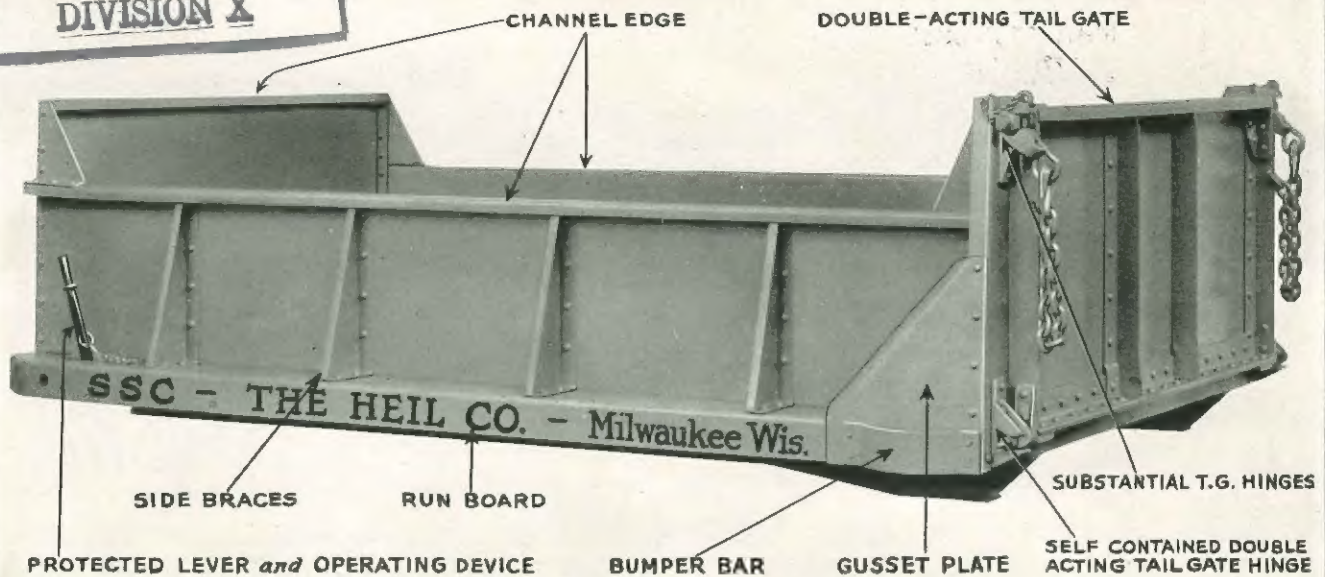
Body Capacity in Cubic Yards	Approximate Weight No. 10 lb	Body Capacity in Cubic Yards	Approximate Weight lb
1½	900		
2	1000 1200	6	1900
2½	1060 1280	6½	2000
3	1120 1375	7	2100
3½	1180 1460	7½	2200
4	1240 1530	8	2300
4½	1345 1625	8½	2400
5	1450 1700	9	2500
5½	1550 1800	10	2700

(For Prices See Table No. 2 on Price List.)



BE SURE IT'S A HEIL BODY—BEWARE OF IMITATIONS

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DIVISION X



Heil SSC No. 11 Steel Dump Body



WITHOUT doubt, the Heil SSC No. 11 Steel Dump Body is the leader in its field. It is designed to stand up under the most severe strains of dump truck work. Note how well the sides are braced, tail gate reinforced, and tail gate mechanism protected.

Body Specifications

The Heil SSC No. 11 is made with Square corners, Straight sides, and front end Crowned. It has full length runboards which serve as mud-guards and also protect the tail gate operating lever and control lever. The photograph clearly shows the self-contained, double-acting, tail gate hinge, gusset plate reinforcement for tail gate posts, substantial tail gate hinges and bumper bar. The front end and tail gate are crowned 3" to 4". Front and tail gate

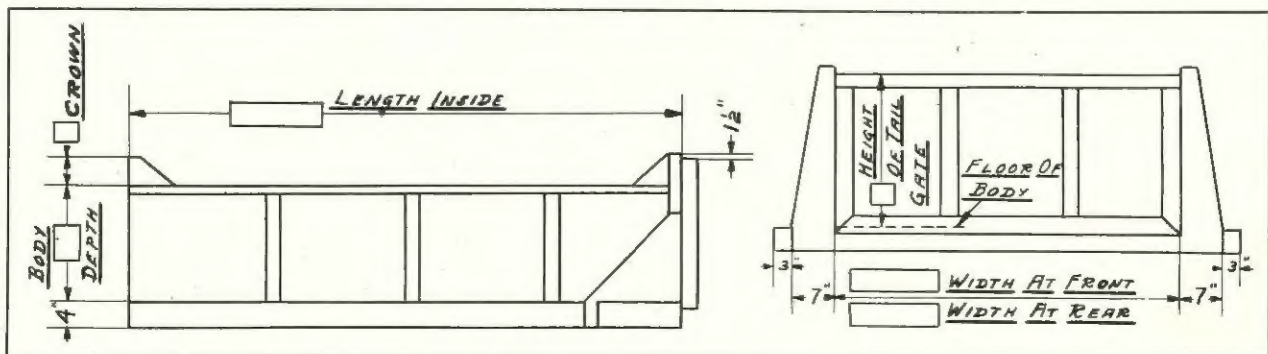
can be built higher to take extension sides at an additional charge. See weights on page 10.

Body Dimensions

Lengths—8', 8'6", 9', 9'6", 10', 10'6", 11', 11'6", 12'.
Widths—5'0", 5'6", 6'0".

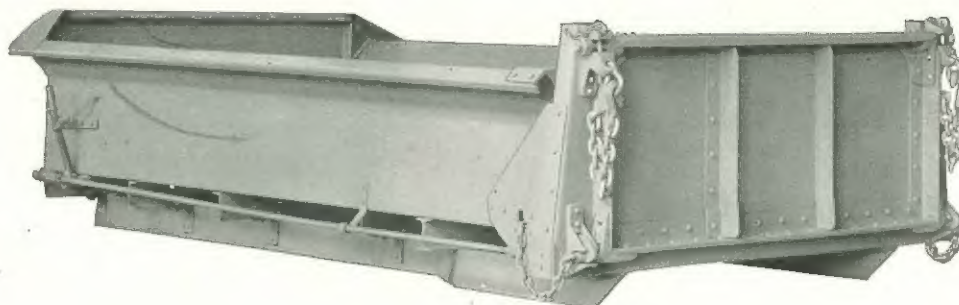
This SSC No. 11 type is constructed of No. 8 or $\frac{3}{16}$ " and No. 10 gauge steel. It is not advisable, however, to use No. 10 gauge for hauling sand, gravel or crushed stone unless body is equipped with wearing plate.

(For Prices See Table No. 3 on Price List.)



BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS

U.S. PATENT OFFICE

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DIVISION XChain Spreader Device as Shown
Furnished at Extra Charge.

Heil SFC No. 20—Without Run-Boards

THE SFC No. 20 is constructed with Square corners, Flared sides, and front end Crowned. The tail gate is double acting and may be hinged at the bottom and extended for platform loading. The flared sides and flanged channel edges give the sides rigidity, a feature particularly desirable in dump truck work which includes the hauling of bulky material, such as crushed stone, coal, cinders, clay, etc. This body, as are all Heil Bodies, is slightly tapered in width, insuring the quick release of the stickiest material.

Body Specifications

Square corners, Flared sides, with front end Crowned. Double-acting tail gate with Heil 100% manual control. This SFC No. 20 is constructed of $\frac{3}{16}$ " or No. 10 gauge steel. It is not advisable, however, to use No. 10 gauge for bodies over 5 cubic yards in capacity.

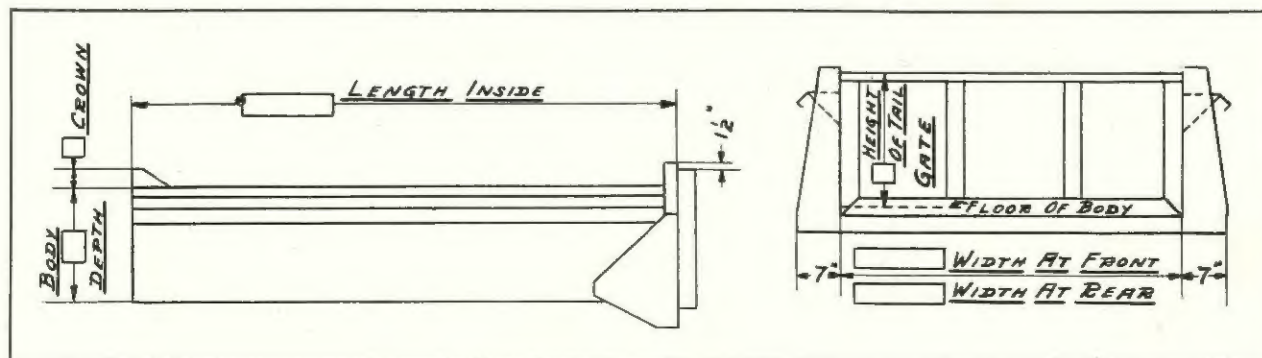
Note clip angles that hold long members to cross members. See weights on page 5.

Body Dimensions

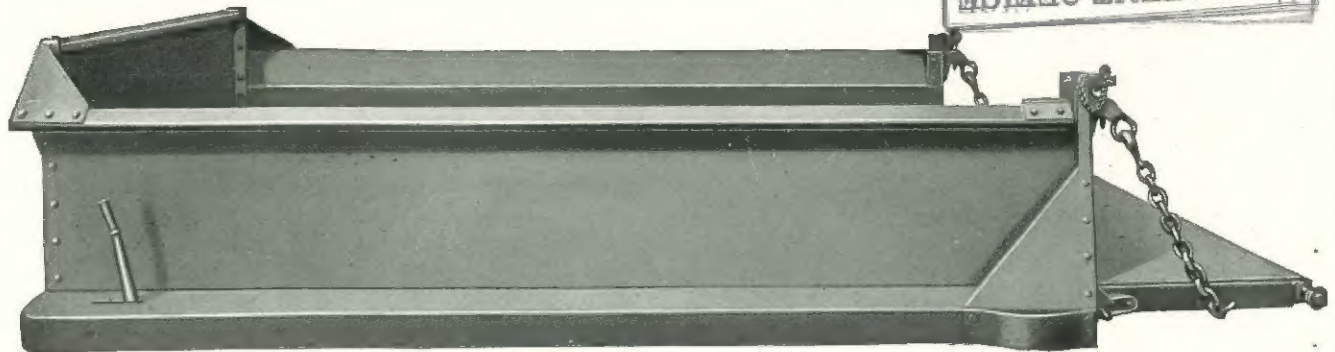
Lengths — 8', 8'6", 9', 9'6", 10', 10'6", 11', 11'6", 12'.

Widths — 4'6", 5', 5'6", 6'.

(For Prices See Table No. 2 on Price List.)



BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS



Heil SFC No. 21—With Run Boards

THE SFC No. 21 is another very popular model with coal dealers, hauling companies, sand and gravel companies. It is complete in every detail, including the full-length run-boards which serve as mud-guards and also as a protection to the tail gate operating handle and control mechanism. Braces on this type of body are unnecessary, because flared sides with channel edge give utmost rigidity to the body sides.

Body Specifications

Square corners, Flared sides, with front end Crowned. Double-acting tail gate. The substantial rear end construction insures strength where it is most required. Tail gate castings are set in from outside. A heavy gusset plate on each side strengthens the tail gate, and along with the radius bumper bar acts as a protection to the tail

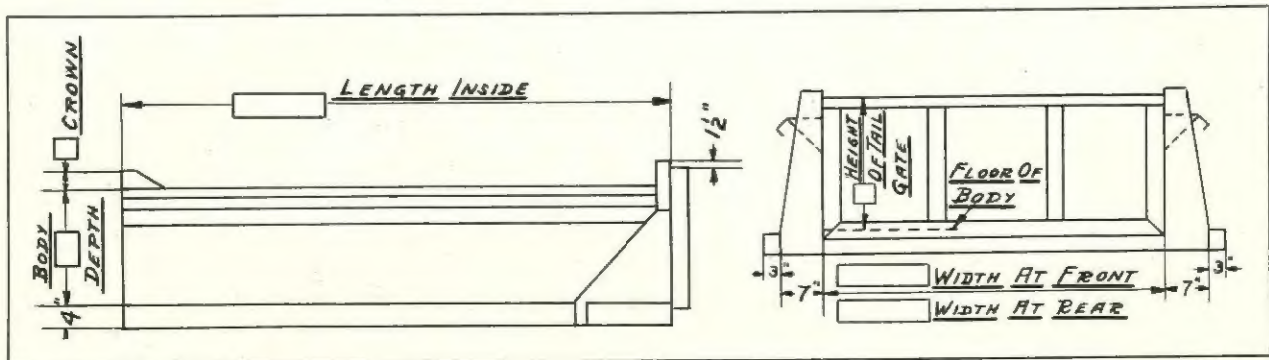
gate. This SFC 21 type is constructed of $\frac{3}{16}$ " and No. 10 gauge steel. It is not advisable, however, to use the No. 10 gauge for bodies over 5 cubic yards in capacity. See weights on page ten.

Body Dimensions

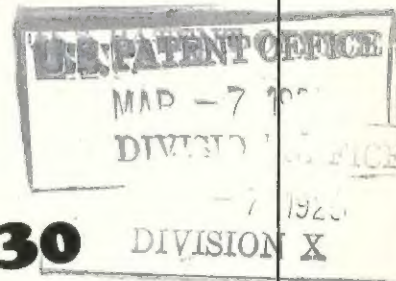
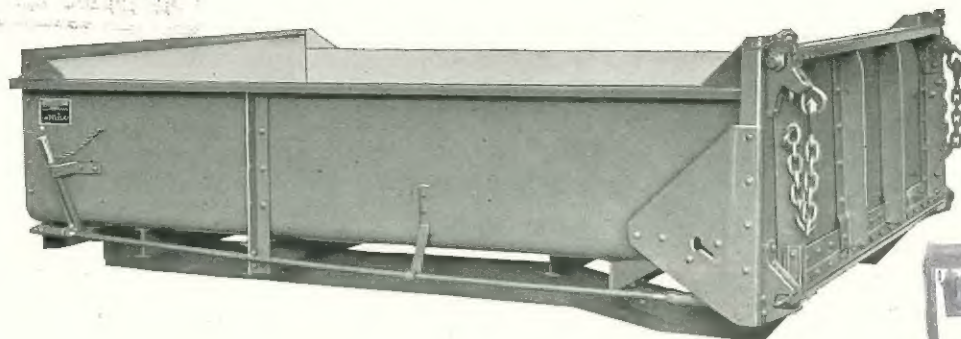
Lengths — 8', 8'6", 9', 9'6", 10', 10'6", 11', 11'6", 12'.

Widths — 4'6", 5', 5'6", 6'.

(For Prices See Table No. 3 on Price List.)



BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS



Heil RSC Body Model No. 30

THIS HEIL BODY is very popular with road contractors for hauling crushed rock, and aggregates direct to the mixer. Body can be fitted with one or more swinging partitions for batch work. The sturdy tail gate construction gives long life to this body even under the most severe hauling conditions. This same design body with full length mud guards is designated as Model No. 31.

Specifications

Round corners made to 3" radius. Straight sides, front end crowned. Tail gate double acting — well braced. One or more angle iron stiffeners on each side of body depending on capacity and length. Made of 10-gauge or $\frac{3}{16}$ " steel. Wearing plate recommended for 10-gauge bodies.

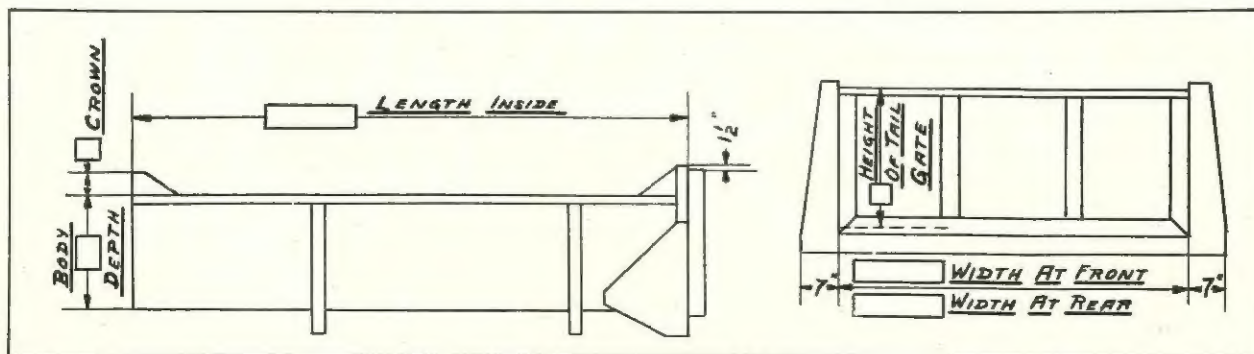
Body Dimensions

Lengths — 7'6", 8'0", 8'6", 9'0", 9'6", 10'0", 10'6", 11'0", 11'6", 12'0".

Widths — 4'6", 5'0", 5'6", 6'0" — (all tapered 3" wider at rear than front).

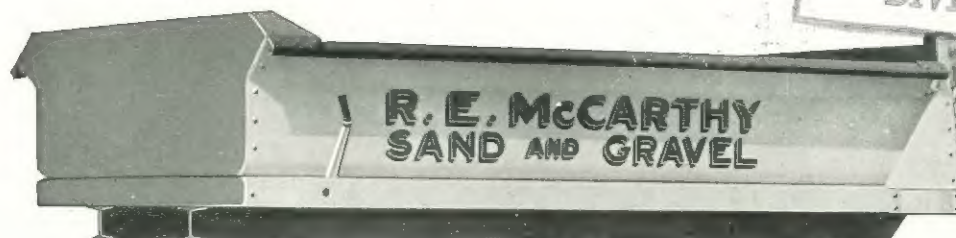
Gravel Spreading Device may be furnished if desired. See weights on page 5.

(For Prices See Table No. 2 on Price List.)



BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS

U.S. PATENT OFFICE
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DIVISION X



Heil RFC No. 41—With Run-Boards

THE RFC No. 41 is a popular type with sand and gravel contractors. The full-length run-boards which serve also as mud-guards are an attractive feature of this model. This is one of the standardized steel dump bodies manufactured by the Heil Co. Body model No. 40 is the same as model No. 41 except that it has no run-boards.

Body Specifications

Round corners made to a 3" radius, Flared sides, with front end Crowned. Tail gate is double acting and adequately protected by the regular gusset plate reinforcement and bumper bar. This RFC No. 41 is constructed of $\frac{3}{16}$ " or No. 10 gauge steel. It is not advisable, however, to use the No. 10 gauge for bodies over 5 cubic yards in capacity.

Body Dimensions

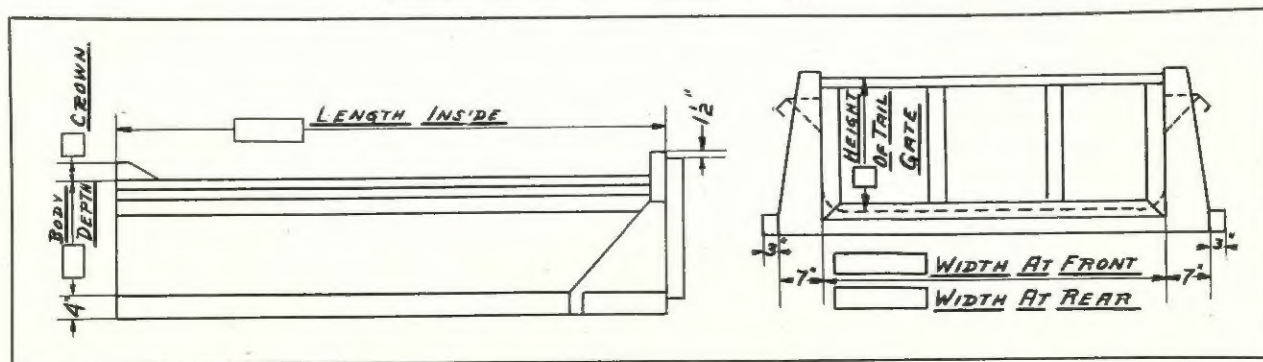
Lengths — 8', 8'6", 9', 9'6", 10', 10'6", 11', 11'6", 12'.

Widths — 4'6", 5', 5'6", 6'.

Approximate Body Weights

Body Capacity in Cubic Yards	Approximate Weight No. 10 in"	Body Capacity in Cubic Yards	Approximate Weight in"
1½	1125	6	2185
2	1225 1475	6½	2285
2½	1285 1555	7	2385
3	1345 1640	7½	2485
3½	1405 1745	8	2585
4	1465 1815	8½	2685
4½	1570 1910	9	2785
5	1675 1985	9½	2885
5½	1780 2085	10	2985

(For Prices See Table No. 3 on Price List.)



BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS

U.S. PATENT OFFICE
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DIVISION X



Heil "2-in-1" Combination Body — No. 50

(Name Reg. at U. S. Patent Office)

THE Model "2-in-1" Combination Body or Heil Model No. 50 is a platform body fitted with double-acting tail gate and corner posts, but without sides. There are stake pockets in the floor set in 7" from the edge to receive stakes. As shown, this body is particularly useful for hauling cement blocks, cement in bags, boxes, barrels, machinery, lumber, etc. With wooden or steel stakes in the platform pockets, this body is of particular value to the building supply dealer and others desiring a simple platform job.

Body Specifications

The platform type of body must be designed very carefully as there are no ties from front to rear. Heil Combination bodies are particularly strong. The flanging down of the platform floor together with the heavy structural steel subframe gives strength and rigidity to this Body. The "2-in-1" Combination Body can be easily converted into a "3-in-1" or "4-in-1" combination by adding

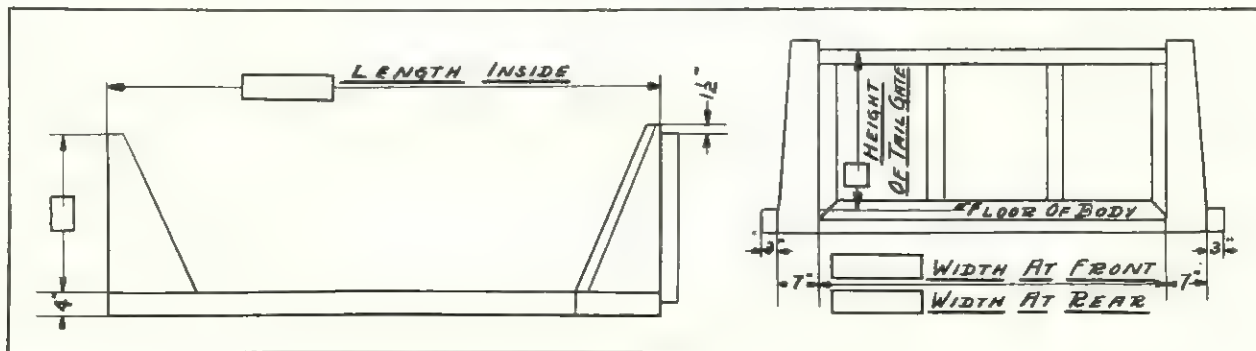
sides. The run-boards are full length and serve as mud-guards. Tail gate is double acting and is reinforced by a steel gusset plate on each side. The regular radius bumper bar is part of this equipment.

Body Dimensions

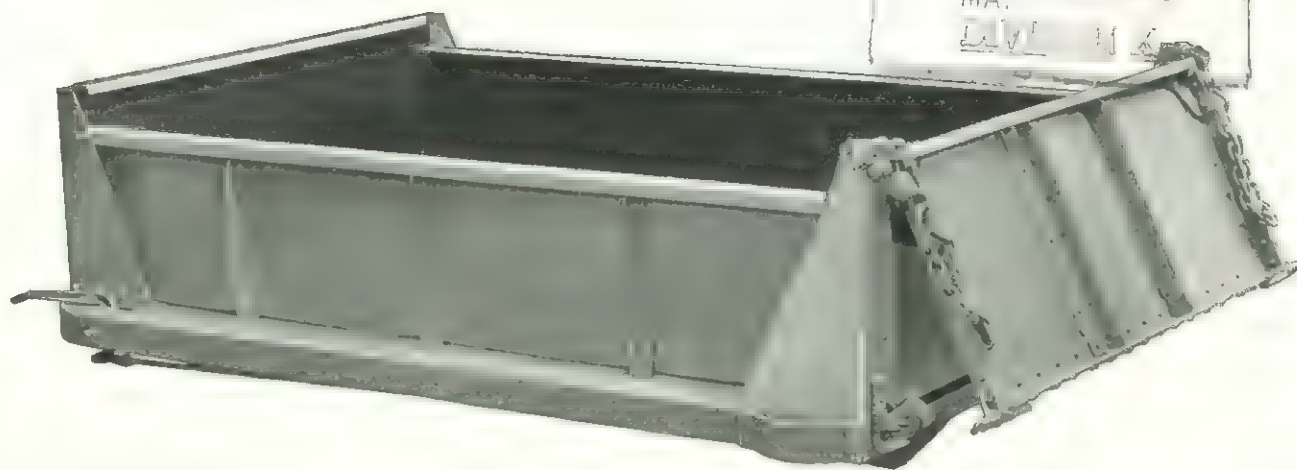
Length — 8', 8'6", 9', 9'6", 10', 10'6", 11', 11'6", 12'.

Width — 4'6", 5', 5'6", 6'.

(For Prices See Table No. 4 on Price List.)



BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS



Heil "3-in-1" Combination Body — No. 51

(Name Reg. at U. S. Patent Office)

THE "3-in-1" Combination Dump Body or Heil Model No. 51 has a particular appeal to the building supply dealer, the coal dealer, and in fact to any truck owner who has a variety of services for his dump trucks to perform. The Heil Combination Body can very easily be changed into a stake and platform job. Then, with the tail gate extended level with the floor of the body, the dump truck readily becomes available for express service. Model 50 has front end and tail gate high enough for sides to give coal capacity where depth of body does not exceed 36".

Body Specifications

The Heil "3-in-1" Combination Body is built up from the "2-in-1" type by adding a set of steel sides. All Heil Combination Bodies are furnished with double-acting tail gates. The regular Heil 100% manual tail gate control is installed under

the extended platform or mud-guards. All of the exclusive Heil features in steel dump body design and construction are included in this combination type.

Body Dimensions

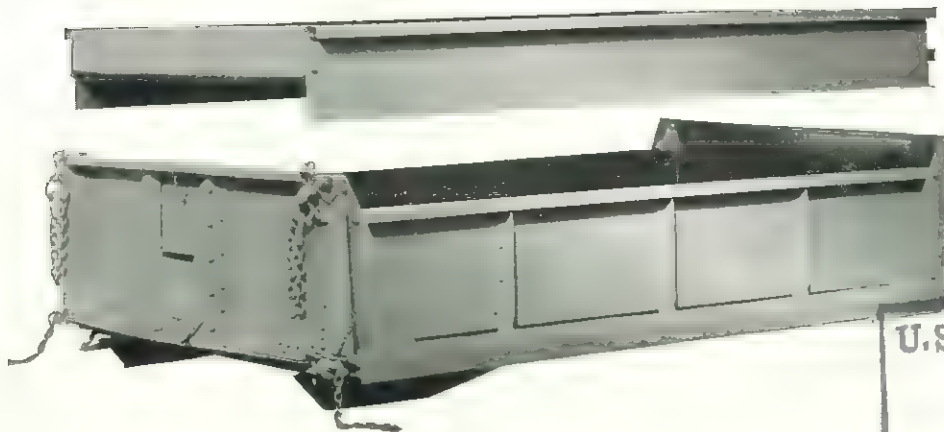
Length—8', 8'6", 9', 9'6", 10', 10'6", 11', 11'6", 12'.
Width—4'6", 5'0", 5'6", 6'0".

Note how the tail gate castings are designed to stiffen and reinforce the gate. The lower edges of the sides are flanged in 2 inches to keep fine material from escaping.

(For Prices See Table No. 5 on Price List.)

Chassis Capacity	1 Set Sides Capacity Cubic Yards	2 Sets Sides Capacity Cubic Yards	Approximate Weight "2-in-1" Body	Approximate Weight "3-in-1" Body	Approximate Weight "4-in-1" Body
1½	1½	2½	980	1130	1200
2	2	3	1035	1210	1300
2½	2½	3½	1080	1275	1375
3	3	4	1395	1645	1795
3½	3	5	1585	1880	2040
4	3½	6	1695	2010	2200
5	4	7	1945	2285	2495
6	5	9	2115	2505	2760
7½	6	10	2295	2720	3000

BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS



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DIVISION X

Heil "4-in-1" Combination Body—No. 52

(Name Reg. at U. S. Patent Office)

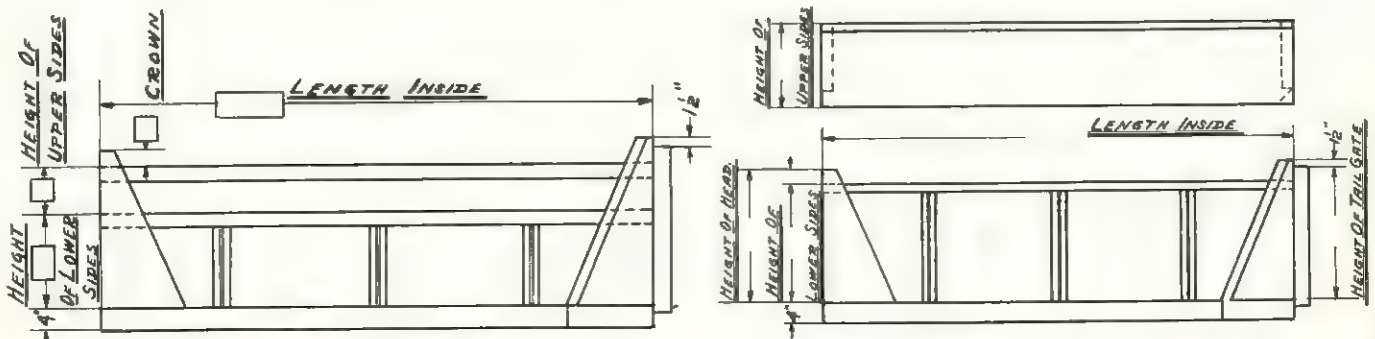
THE "4-in-1" Combination Dump Body or Heil Model No. 52 represents the maximum efficiency in this type of Steel Dump Body construction. It allows for a rapid changeability of the body from large capacity to platform express service. It can be used for hauling coal, cinders, ashes and rubbish with all sides in place; or for sand, gravel and crushed stone with the lower sides only. Again, all sides may be quickly removed and the body made ready for transporting brick, building blocks, tile, cement, piping and lumber.

Body Specifications

The "4 in 1" Combination Dump Body is built up from the basic "2 in 1" type by adding two sets of steel sides. The "4 in 1" or Model No. 52 is regularly equipped with double acting tail gate with the Heil 100% manual tail gate control. Bodies for 5-ton trucks (4-7 yard capacity) and larger are made as shown with sides, front and rear

detachable. This is done so that the view out of cab window will not be obstructed when truck is used in excavating work — also to prevent steam shovel from damaging the rear corner posts and tail gate which would extend so high. For bodies of lesser capacity than 4-7 yards the front and rear are made high enough to take the additional sides.

(For Prices See Table No. 6 on Price List.)

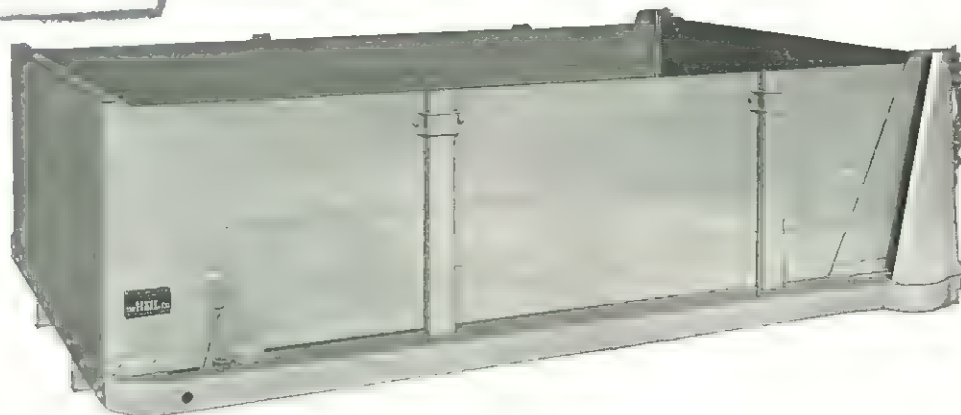


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DIVISION X



Model 53—Brick Body—Chicago Type

THE Chicago type Brick Body is a Heil "2 in 1" Combination Body fitted with wooden sides. Building Supply Dealers, Brick Yards and Trucking Contractors who haul tile, brick, cement blocks, pipe, find a body of this type particularly well fitted to their work. The sides are easily removable.

Body Specifications

The body is formed by adding $1\frac{1}{4}$ " oak sides to the "2 in 1" platform body. The side boards are 8" or 9" wide ironed top, bottom and ends with 14-gauge band iron. Malleable stake loops fit over the stakes to hold the sides firmly in place. Standard construction provides a loop for top side only to hold stake in place. At the ends the sides fit into slides holding them firmly in place. This makes them absolutely tight, preventing rattling. The Standard tail gate is double acting. If desired a side hinged gate can be furnished at extra cost.

Body Dimensions

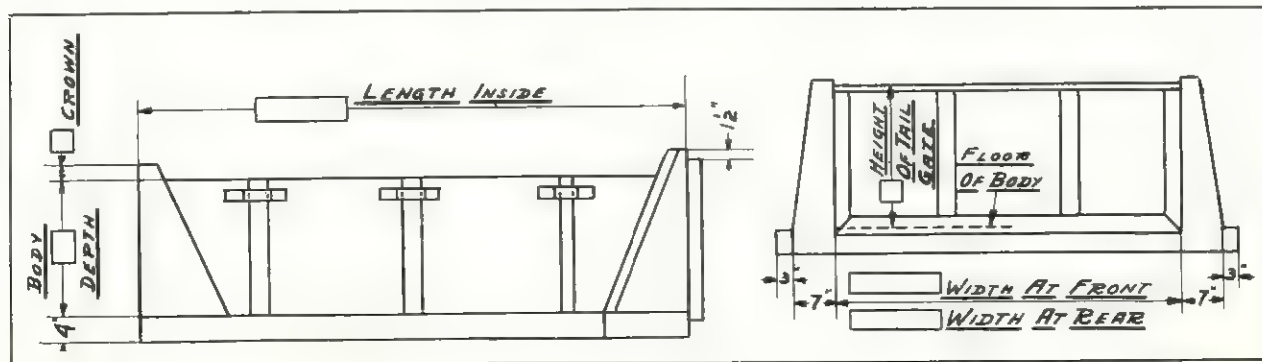
Lengths — 8'0", 8'6", 9'0", 9'6", 10'0".

Widths — 5'6", 6'0".

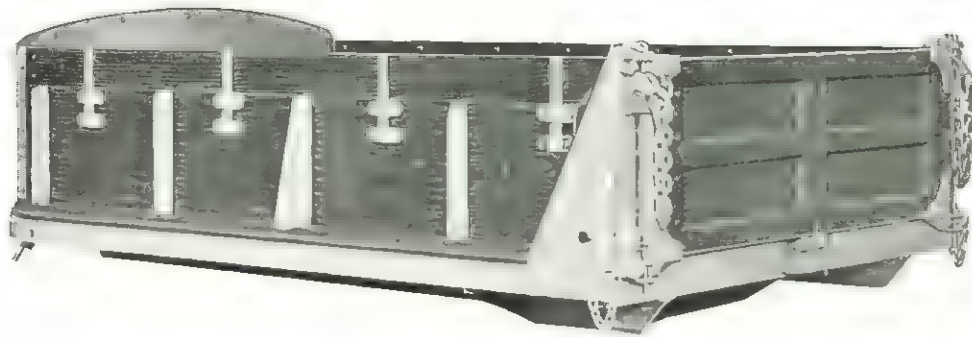
Heights — 24" to 48".

Always give exact length, width and height of brick body for the number of bricks to be loaded. Do not order body by brick capacity, i.e., 4,000, 5,000 brick, etc., give actual dimensions.

(For Prices See Table No. 7 on Price List.)



BE SURE IT'S A HEIL BODY—BEWARE OF IMITATIONS



Model 62 Steel-Lined Wooden Body

HEIL Steel-Lined Wooden Body Model 62 is widely used by Trucking and Excavating Contractors in the East. It is an exclusive model. It incorporates the most advanced ideas in dump body design. The Body is constructed especially for steam shovel loading and all heavy excavating jobs where rock, stone, broken concrete, etc., is hauled. The resilience of the wood with its steel wearing plate enables the body to stand up under the most severe battering.

Body Specifications

The sides of this Body are $1\frac{1}{8}$ " oak. The 2" wood floor is covered with $\frac{3}{16}$ " steel plate in one piece. The sides, front and tail gate are lined with 12-gauge steel. Front end, sides, tail gate and tail gate posts are all removable, making it a platform body. The double-acting tail gate with special platform hinge is of oak, steel lined. Full length runboards act as mud-guards and also protect tail gate operating handle and control rods. Body shown is fitted with chain spreader device.

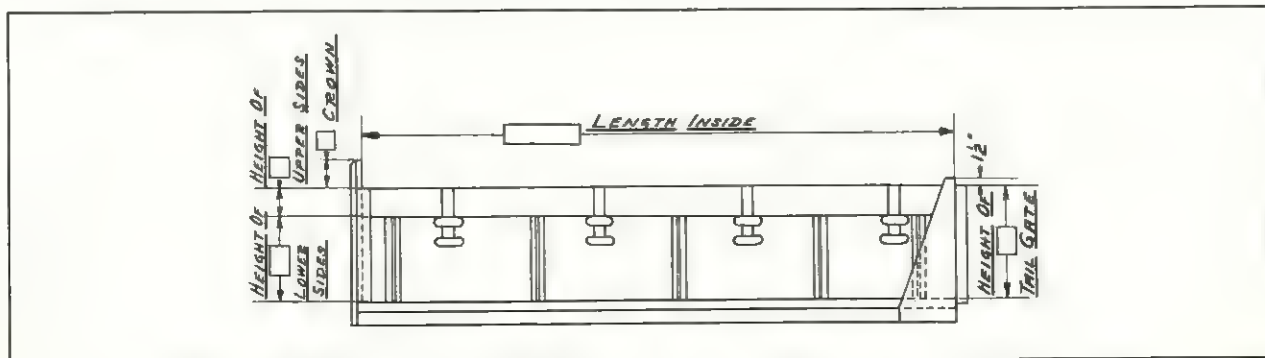
The sides of the Body are made with metal stakes and stake pockets. A supporting hinge in the center

at the bottom of the tail gate keeps tail gate from bulging. The tail gate hinge castings are designed to give maximum strength to gate. The front end is crowned 6". The outer edge of running board is supported by a heavy angle, riveted to cross members of subframe. This constitutes a bumper or rub rail to keep body from being damaged when truck is driven close to building, shovel or car.

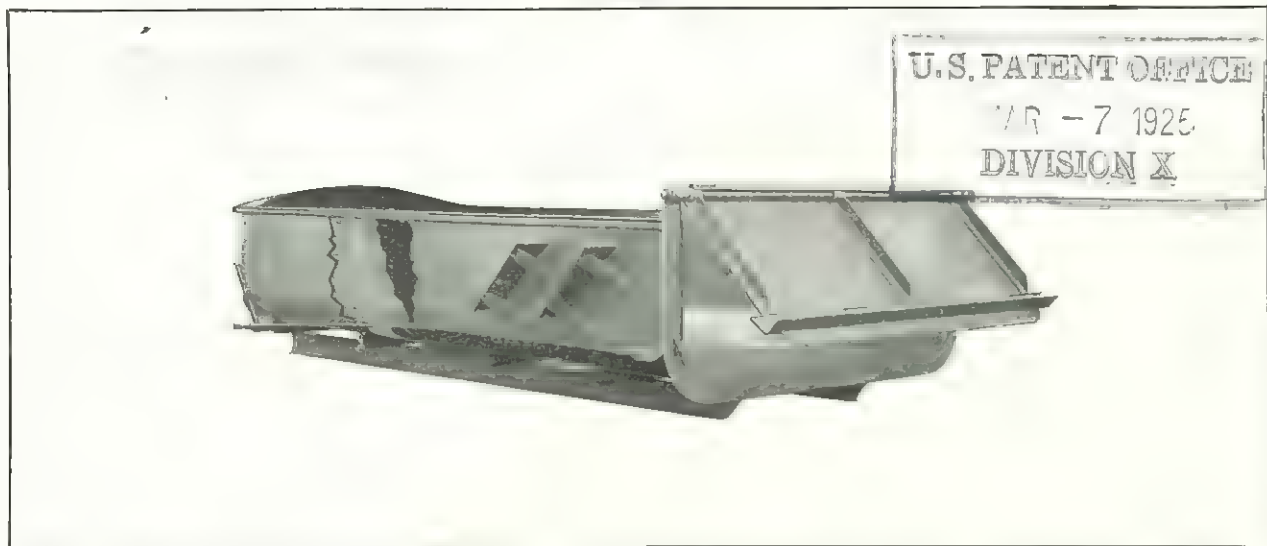
Dimensions

For $3\frac{1}{2}$ to 5 ton trucks — 10'0", 10'6", 11'0" long, 5'9" wide at front, 6'0" wide at rear, lower sides 18", total height 24". Tail gates 18" or 24" high as ordered.

(For Prices See Table No. 8 on Price List.)



BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS



Heil Insulated Steel Asphalt Body Model 70

MUNICIPALITIES and Paving Contractors prefer Heil Insulated Steel Asphalt Bodies because of their improved construction features for hauling hot asphalt and keeping it hot. Model 70 has no run boards — Model 71 (not shown) is the same as Model 70 with the addition of run boards.

Body Specifications

Asphalt Bodies are made with a layer of asbestos $\frac{3}{8}$ " thick between an outer shell of 8 or 10-gauge steel and an inner shell of 14-gauge steel. The asbestos retains the heat in the asphalt so that it dumps easily after a long haul.

Two steps are placed on each side to make it easy to scrape out any asphalt that may stick to the sides. Bodies are tapered 6" wider at rear than at front. The floor is made with a 6" radius to make sure of clean, quick dump.

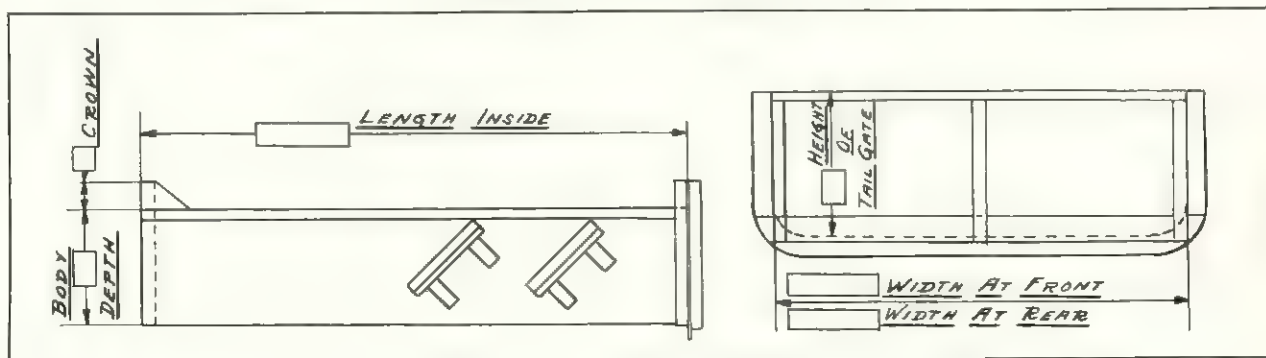
Bodies can be furnished with either single or double-acting tail gates at no additional charge. Unless otherwise specified tail gates are single acting. Sides are 3" higher than required capacity to prevent splashing over sides. Capacities are figured at 87 pounds per cubic foot.

Body Dimensions

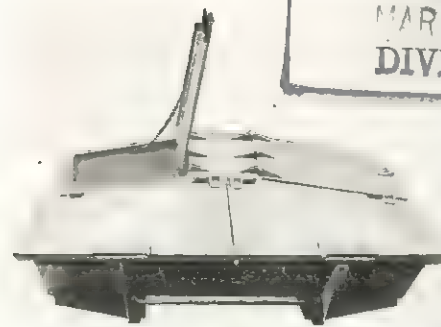
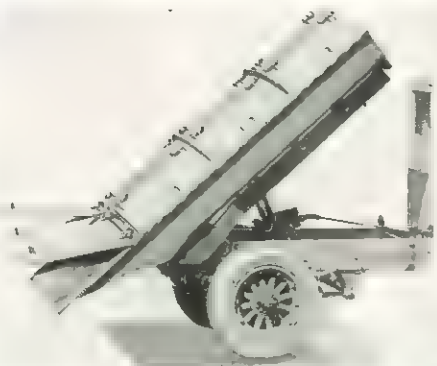
Lengths — 9'0", 9'6", 10'0", 10'6", 11'0", 11'6", 12'0".

Widths — 5'0", 5'6", 6'0".

(For Prices See Table No. 10 on Price List.)



BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS



Model 80

U.S. PATENT OFFICE
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DIVISION X

Steel Garbage Bodies

GARBAGE Bodies are usually custom built to suit the particular job. Models 80 and 81 are recommended for small capacities, Model 82 for larger units. They are made for mounting with Heil Hand Hoists or Heil Hydro Hoists. Capacities from 1 to 16 cubic yards. Garbage varies greatly in weight, depending how it is disposed of. It is usually estimated at 43 pounds per cubic foot. There are three types of bodies used for collection of garbage:

Model 80 — in which the floor at rear tapers to top of sides.

Model 81 — in which the floor tapers one-half height of sides, the upper part being fitted with a manually controlled tail gate.

Model 82 — not shown, in which the rear of body is fitted with a full height water-tight tail gate. Closed with 4 or 6 wing nuts.
(All models made with or without steel covers.)

Body Specifications

Garbage Bodies are made water tight to prevent liquid garbage from dripping on the street. Seams are all electrically welded. Bodies are made with or without steel covers. Open top bodies are provided with loops so that a canvas tarpaulin can be tied over the top. Closed bodies are fitted with six to eight covers, depending on the capacity. These covers provide for a 20% additional load in the crown. A stay chain is attached to each cover.

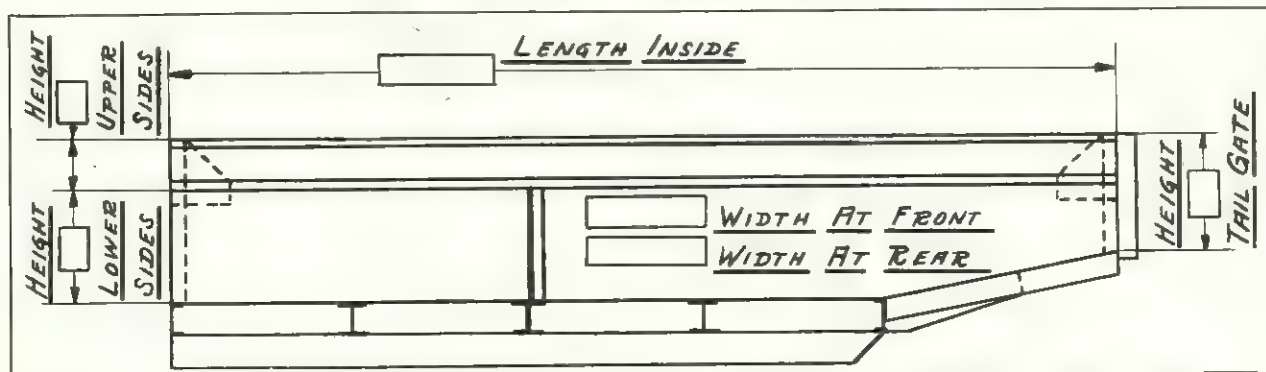
Covers are made of 14-gauge steel and are lined to secure a tight fit and eliminate rattle. Any Heil Garbage Body can be built with hinged sides or removable sides at extra cost.

Body Dimensions

Lengths — 8'0", 8'6", 9'0", 9'6", 10'0", 10'6", 11'0", 11'6", 12'0".

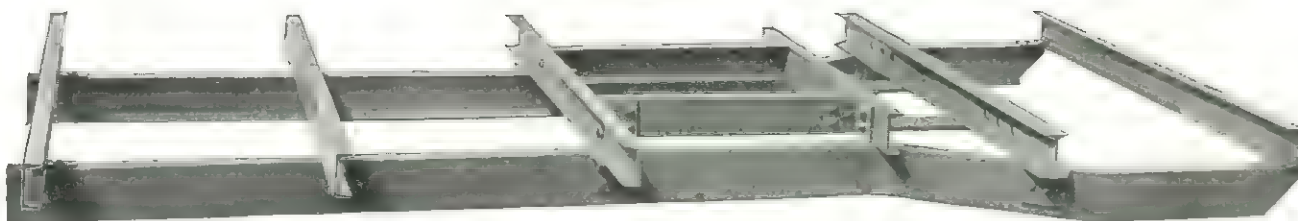
Heights to suit capacity. As low as possible to facilitate loading. Widths to suit conditions.

(For Prices See Table No. 9 on Price List.)



Model 81

BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS



Heil Structural Steel Subframe



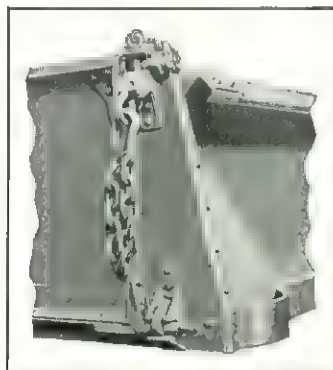
STRUCTURAL Steel Subframe can be furnished for use with the Heil Hoist. On this subframe any type of body can be mounted either by riveting to cross members or tying them with "U" bolts or bolts through the floor.

The Heil Structural Steel Subframe consists of six cross members and two longitudinal members made of channels or I-beams depending upon the size of the body. This subframe gives the body a back-bone which will absolutely prevent weaving or warping. This type of subframe is necessary for a body used with a Heil Hydro Hoist. Cut shows subframe with bent long members, on some trucks straight beam subframes may be used.

(For Prices on Subframes See Table No. 11 on Price List.)

Specifications

Dimensions of Heil Steel Subframes include widths from 4' to 7' and lengths from 7' to 12'. Construction may be of either channel iron or I-beam, depending on the chassis and model of hoist used.



Tail Gate Construction

Castings set in from outside. A $\frac{1}{2}$ " bar bent to a radius is riveted on each side acting as a bumper. Heavy gusset plate each side strengthens tail gate and protects it.

Coal Doors

Coal Doors can be furnished in two types known as the sliding and hinged door. They can be fitted into the sides or tail gate of any type body shown in this catalog. Standard width of opening 17". Spillways are 3" deep fitted with bagging hooks.

Collapsible coal chutes can be fitted into floor of body, if desired. These chutes are fitted with spillway and have side hooks for attaching spouting chutes.

Wearing Plates

When Dump Bodies are to be subjected to the strain of extreme battering as in the steam shovel and excavating work, a wearing plate should be provided. These wearing plates are made of $\frac{3}{16}$ " steel and are bolted to floor of body. If ordered, wearing plates can be made to extend up sides.



Hinged Sides

Hinged sides can be furnished on any model body at additional charge.

Hinged sides are used to reduce the overall height of body for hand loading — particularly valuable for loading coal, ashes, rubbish, garbage, etc.

The sides are hinged with three or four substantial hinges designed so that the sides will hang down vertically. There is a simple locking device at each end, so made that it can not rattle open and allow side to drop.

Hinges are so designed that sides can be removed if desired.

(For Prices on Accessories See Table No. 12 on Price List.)

BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS



This body fitted with sliding coal door in tail gate with bagging hooks and spillway. Note chain device for gravel spreading.

U.S. PATENT OFFICE
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DIVISION X

Swinging Partitions a Heil Specialty

(Patented)

THE Heil Swinging Partition was designed for Coal Dealers, Road-Building Contractors and others who must have a divided body to take care of their loads. Heil partitions excel in that they can be operated very easily by one man, no matter how heavy the material. They are positive in action — cannot get out of order or fail to work.

The Heil Swinging Partitions consist of a divider plate of steel flanged over at all edges to give stiffness. Flanges are turned away from the load. Partitions are bolted to the upper flange of the body with steel brackets.

At the bottom of the partition there are two $\frac{3}{4}$ -inch lugs which pass through the floor. An eccentric which turns in the brackets raises the partition so that the lugs clear the floor and the partition can readily swing open.

The partitions are made high enough to prevent loose material from spilling over the top. The partition operating handle is located on the left-hand side of the body unless otherwise specified.

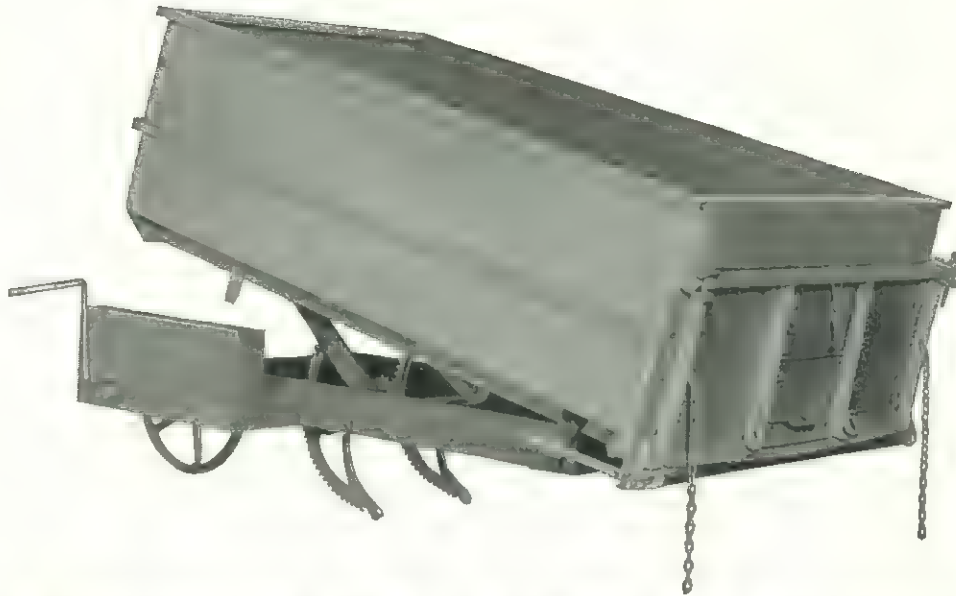
Heil Swinging Partitions can be built up for Dump Bodies now in service. The following information is necessary when ordering these swinging partitions:

- | | |
|--|---|
| 1 — Model and Piece No. of Heil Body. | 3 — Width of Body at front and rear. |
| 2 — Length of Body. | 4 — Height of Sides. |
| 5 — Number of partitions required — and how spaced. | |

When partitions are ordered for bodies not built by Heil give above information and send sketch showing cross section of sides.

(For Prices See Table No. 12 on Price List.)

BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS



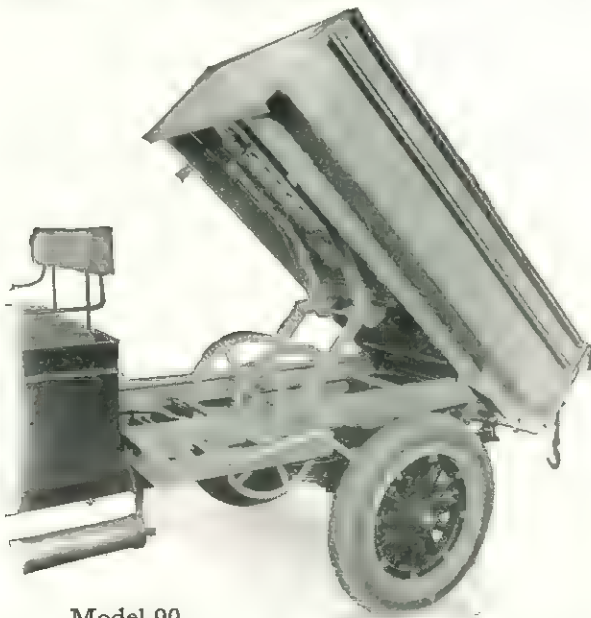
Model 91

Hand Hoists and Steel Bodies for 1-Ton Trucks

HEIL builds a standardized steel dump body and Underbody Hand Hoist for mounting on one ton trucks. This equipment fills the needs of the landscape gardener, cemetery, building supply dealer, coal dealer, cement contractor and all general haulers.

Body Specifications

Model 90 — 42 cubic feet. Body and Hoist.
Lengths — 7'0". An 8'0" body built on order.
Widths — 3'11½" front, 4'1½" rear.
Heights — Lower sides 12" — Capacity 28 cu. ft.
Upper sides 6" — Capacity 42 cu. ft.
Tail Gate — Double acting; 18" high.



Model 90

Model 91 — 60 cu. ft. Body and Hoist.

This is like Model 90 with upper sides added.

Height — Lower sides 12" — Capacity 28 cu. ft.
Upper sides 14" total — Capacity 60 cu. ft.

Tail Gate — Double acting; 18" high.

Specifications on Underbody Hand Hoist

The Hand Hoist consists of a set of driving gears, cut on Fellows Shaper to mesh with least possible friction. The outside pair of gears are covered with a guard.

These gears operate gear segments to which are bolted lifting arms. There are rollers on the ends of these arms which travel in "T" irons, riveted to the bottom of the body. The spacer shaft on which these rollers turn is held in place by a flat bar preventing the body from back-tipping. A low mounting is secured being 10" or less from top of chassis to floor of body.

Lock: A two-way lock is provided. (1) It holds the body in any elevated position and (2) locks the body tightly to frame when in the lowered position.

Dumping Angle: 45° angle is secured with 14 turns of the crank. "U" Bolts are furnished for attaching body to chassis.

Paint: Bodies and Hoists are painted one coat of lead.

(For Prices See Table No. 15 on Price List.)

BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS

Body Model SSC No. 15.
Special Construction for use
with Vertical Hand Hoists.

U.S. PATENT OFFICE
MAR - 7 1925
DIVISION X



Hand Hoist Bodies

HEIL Hand Hoist Bodies are made in the same models although of lighter construction than bodies for use with Hydro Hoists. The most popular body model No. 15 is shown. This square cornered body makes possible easy loading of cement blocks, boxes, crates, etc. The crowned front end is very desirable.

Material — 10-gauge steel. Double-acting tail gates.
Lengths — 6'6" to 10'6".

Widths — 4'6", 5'0", 5'6".

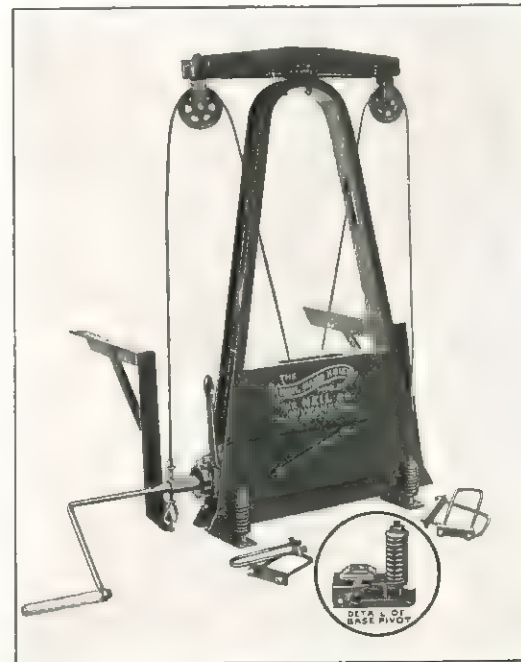
Height — To suit capacity.

Tail gates are manually controlled — the operating handle being set back to clear the hoist handle.

Vertical Hand Hoist

The Heil Vertical Hand Hoist is designed for use on trucks up to 2½-tons capacity. It can handle loads up to 4 tons easily.

The Hoist is mounted on adjustable base pivot brackets to fit any width chassis frame. It occupies 9" of space between the body and cab. The hoist inclines toward the body when lifting, thus increasing the dumping angle and reducing strain on cables.

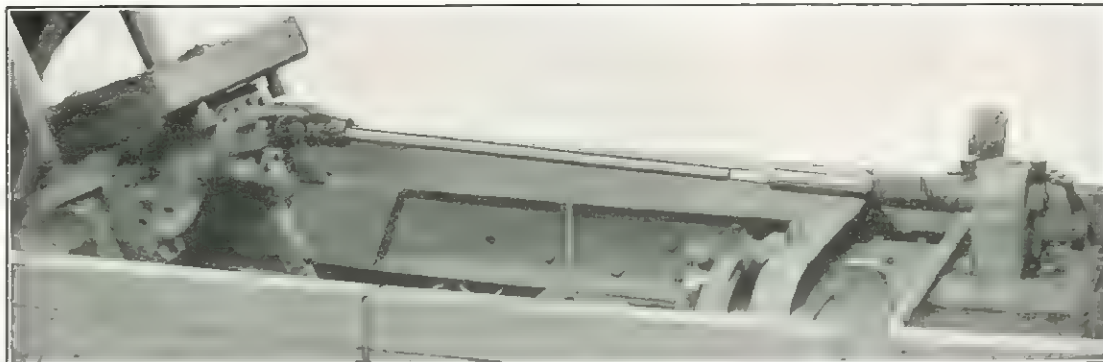


The following table gives the dumping angles. Note the variation as the distance from front of body to hinge changes. Bodies are usually 18" longer than dimensions given, thus a 7'6" distance front to hinge means a 9'0" overall body with 45° dump angle.

Front to Hinge	Dumping Angle
5'0"	71°
5'6"	63°
6'0"	57°
6'6"	52°
7'0"	48°
7'6"	45°
8'0"	41°
8'6"	39°
9'0"	37°

(For Prices See Table No. 16 on Price List.)

BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS



Typical Installation with Top Cover Plate P. T. O.

The Heil Hydro Hoist

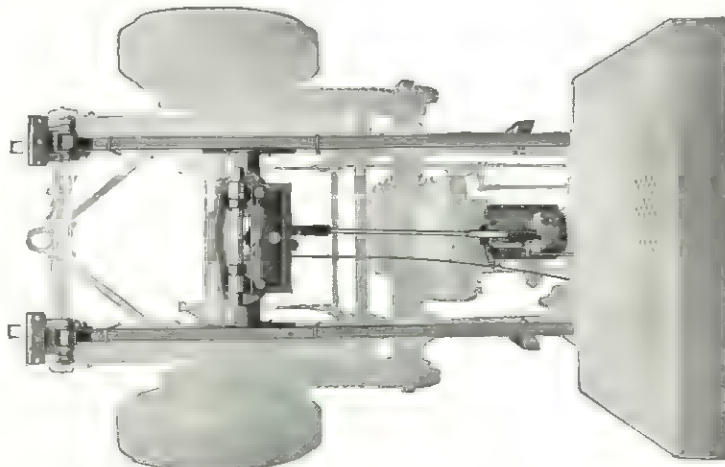
The Heil Hydro Hoist has the following advantages which commend it to all those who need and use dump truck equipment. The Heil Hoist:

1. Allows all the loading space back of the cab to be used for pay load.
2. Gives big dumping angles — from 45° up to 60° for road work.
3. Dumps a load on uneven ground or with load unevenly distributed in body or with truck in any position on an embankment or hill.
4. Light in weight, requiring no structural steel frame to carry the hoist.
5. Is the most powerful dump truck hoist manufactured. Each hoist is tested to 600 pounds per square inch, although but 250 pounds is needed to dump the average truck load.
6. Is located between rear spring shackles where chassis frame is strongest.
7. Covers up no part of truck mechanism — saves 6 to 10 hours when overhauling rear axle or transmission.
8. Is compact unit, the pump being integral with the cylinders, eliminates high pressure piping.
9. Is fitted with gear pump having two wide-faced gears, capable of developing 1000 pounds per square inch, a remarkably fast operating unit. All bearings lubricated by force-feed system.
10. The piston action is direct, and eliminates such wearing parts as rollers, cams, clevises, cables, sheaves and tracks.
11. Has all gears cut on Fellows Gear Shaper.
12. Has Hyatt Roller Bearings in power take-offs — Shafts are hardened and ground.
13. Parts are standardized and interchangeable.
14. A careful check kept on 5000 Hoists during 1923 shows a remarkably low average repair part cost per Hoist. Exact costs on request.

Note how little chassis space the Hydro takes up.

The Chassis parts and rear axle are easily accessible.

The Hoist is well mounted at the strongest point of frame.

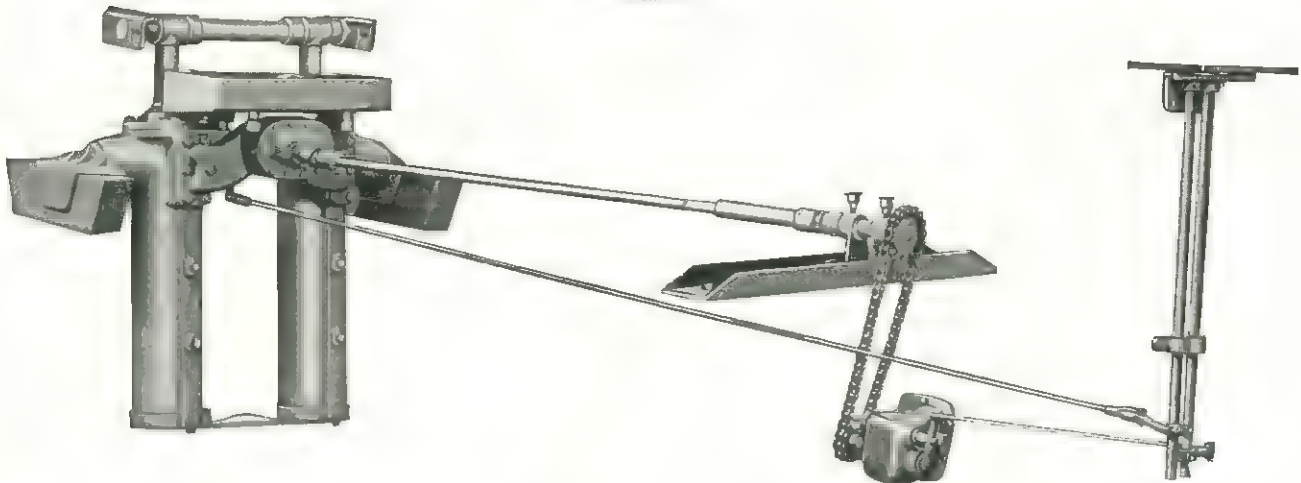


The Hoist mounting saddles with wood block fillers distribute weight over 30 inches of chassis frame.

Positive Hoist controls in the driver's cab.

The Hoist can be held at any dumping position.

BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS



Typical Heil Hoist Installation

THE control levers for operating the Heil Hydro Hoist are located in the driver's cab where they are easily accessible. The standard control has two levers—one to open the valve and lower the hoist, the other to operate the sliding gear in the power take-off. The power take-offs for various transmissions are either attached to standard S. A. E. openings provided or to the extended countershaft of the transmission. The power take-off used for S. A. E. openings is of the sliding gear type, while the power take-off for the extended countershaft is the dog clutch type. Power take-off assemblies are not complicated, and drawings are furnished for all installations. Hyatt roller bearings are used wherever possible.

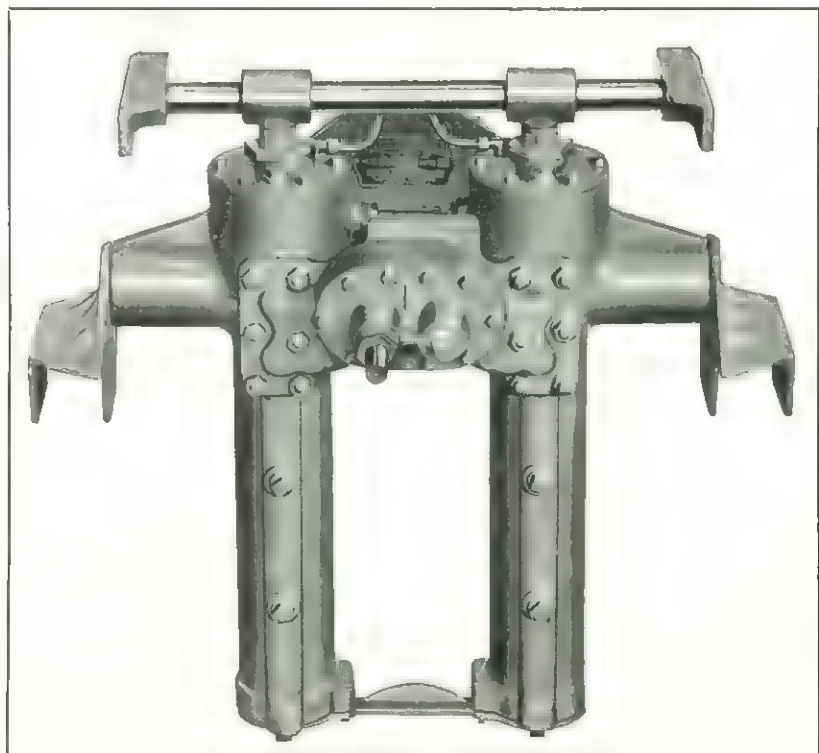
The No. 3 Heil Hoist

This is the new Heil Hydro Hoist for your light-duty motor trucks.

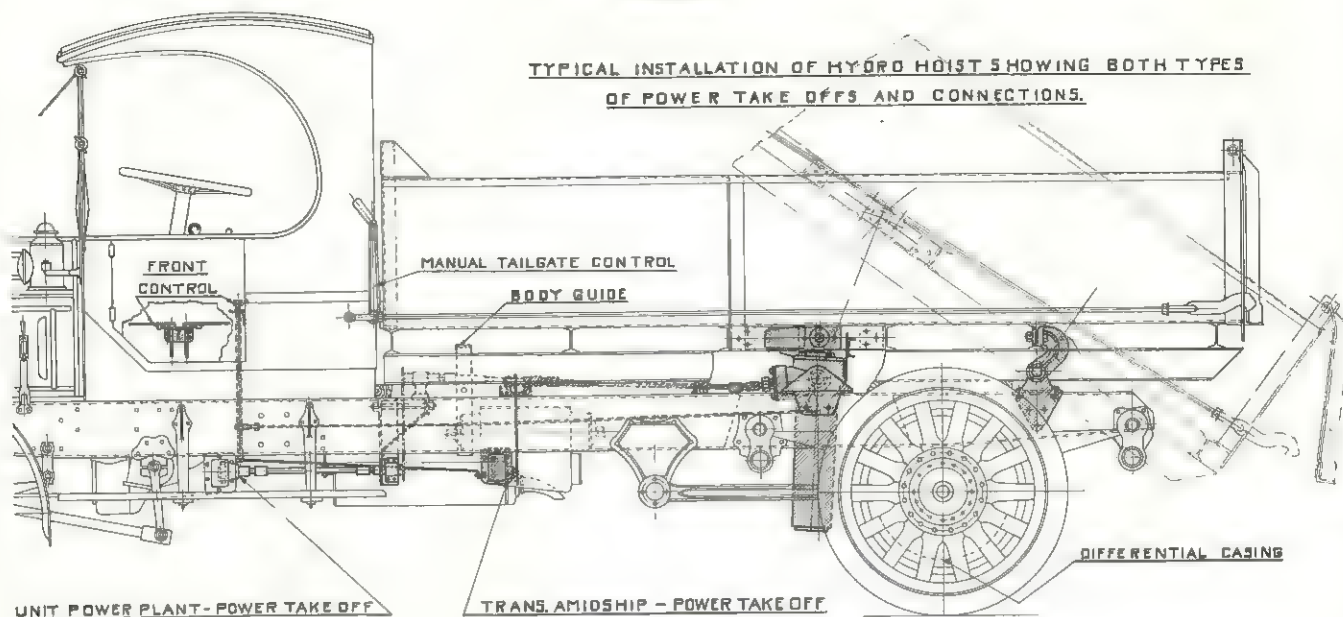
You'll find the same strength and dependability in the No. 3 Hoist as in the other Heil models. The two-piston lifting arrangement, the powerful gear pump, the simple, positive control arrangement in the cab, the rugged power take-off—all are a part of the No. 3 Hoist.

The cylinders of the No. 3 Hoists are enlarged at the top to act as a reservoir for oil. Their construction permits an unusually long piston stroke.

The No. 3 Heil Hoist mounts on 1½-2 ton chassis. It is furnished in two lengths of stroke, 19-inch and 22-inch.



BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS



Heil Hoist Made in Five Models



COMPLETE Heil Hydro Dumping Unit consists of a Heil Steel Dump Body; pivot shafts, truck and body hinges; a Heil Hydro Hoist with its power take-off and hoist controls; and a set of wood sills and body guides.

The Heil Hydro Hoist is furnished with either long or short stroke pistons in the models as shown in the accompanying table.

Hoist

Chassis Capacity

No. 3.....	1½ to 2½ tons
No. 4.....	2½ to 3½ tons
No. 5.....	3½ to 5½ tons
No. 6.....	5½ to 10 tons
No. 7 (Single cylinder hoist for Nash Quad, F. W. D., Oshkosh and all four wheel drive trucks.)	

(For Prices See Table No. 1 on Price List.)

How to Order Heil Hydro Hoists

The following information is required when placing an order for Heil Hydro Hoists:

1. Capacity, Make and Model of Truck.
2. Wheelbase of Truck.
3. Make and Model of Transmission.
4. Location of Transmission — Amidship or Unit Power Plant.
5. Location of Opening in Transmission for P. T. O., i. e., Either Top Cover Plate, Right or Left Hand Side Opening.
6. Size of Tires, Pneumatic or Solid.

Specifications for Hydro Hoists

Hoist No.	Bore of Cylinder Inches	Tested Lifting Force (Not Maximum Power)		Weight Filled with Oil Capacity	
		Pounds	Tons	Pounds	Gallons
No. 3 Short	4	12,500	6¼	325	3
No. 3 Long	4	12,500	6¼	360	3½
No. 4 Short	4¾	17,000	8½	484	5
No. 4 Long	4¾	17,000	8½	509	5½
No. 5 Short	5¾	31,200	15½	573	7
No. 5 Long	5¾	31,200	15½	598	8
No. 6	7	53,900	27	676	10
No. 7	7	13,300	6¾	550	5

BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS

Heil Hi-Lift Unit

(Patented)

THE Heil Hi-Lift Dumping Unit is especially designed for coal delivery. When elevated the floor of the body is about 9 feet above the ground which is sufficient to carry the coal to the bin by gravity. The linkage of the Hi-Lift is so designed that the body can be used as a standard dump by merely changing the position of the locking pin. A standard Heil Hydro Hoist provides the lifting power for the Heil Hi-Lift.

Recommend Solid Tires

It is recommended that Hi-Lift Equipment be mounted only on trucks that have solid tires; that the rear springs have an extra spring leaf or two as the load is carried to the rear when elevated. The Heil Co. furnishes the complete unit ready for installation.

Hi-Lift, Built in Two Sizes

The Hi-Lift is built in two sizes for 2 to 3 ton trucks and 3½ to 6 ton trucks. Any of the

(For Hi-Lift Prices See Table No. 14 on Price List.)

body models described in this catalog can be used with the Hi-Lift. Bodies can be fitted with coal doors or floor chutes, as required.



Heil Hi-Lift with rear end of body 8'6" from the ground; a dumping angle of 22° can be secured with a 6'6" elevation.



Body is specially reinforced with four heavy stakes on each side. Can easily be converted into a regular express-type platform body.

Heil Semi-Trailer Dump

THE Heil Hoist makes an ideal installation for semi-trailers. The illustration shows an 8-yard body Model 53 with No. 6 Hoist. Power to operate the hoist is transmitted through a fifth-wheel attachment. The drive is mechanical throughout. No piping or flexible tubing required.

Solves Weight Limit Problem

is a serious problem to haul a pay load economically, due to the weight laws.

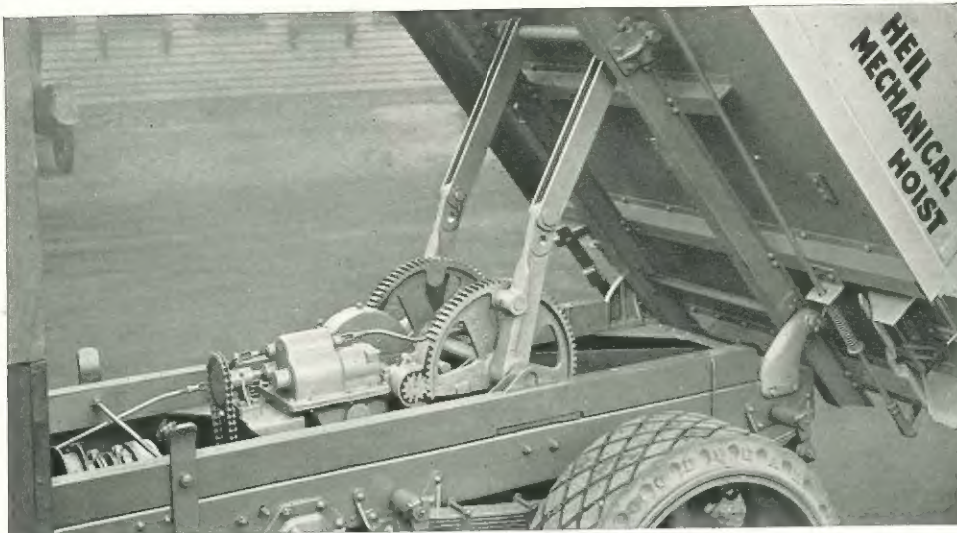
Note how trailer can be turned at right angles for unloading. Heil Hoist and Body installation gives high ground clearance, which is always necessary when stock piling.

This unit is well adapted for handling coal, building supplies, sand and gravel, brick and other bulk material in cities and suburban towns where there Any type of Heil Steel Dump Body can be used on trailer installations (see Table of Contents Page 3). All Body and Hoist prices listed separately on Price Sheet. Ask for information on successful trailer installations.

(Use Regular Body and Hoist Prices.)

BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS

The same excellence of mechanical construction which has made the Hydro Hoist famous will be found in this hoist.



The operation of the Heil Mechanical Hoist is not affected by heat or cold — it is mechanical throughout.

The New Heil Mechanical Hoist Pat.

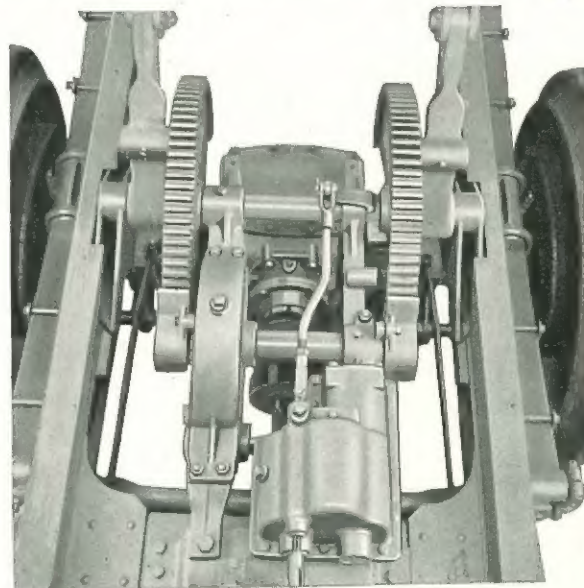
BY adding this new Mechanical Power Hoist to its list of Quality Products, The Heil Co. now manufactures the most complete line of truck dumping equipment in the United States. For those who prefer a mechanical hoist, this new Heil unit will prove the best buy on the market.

The new Heil Mechanical Hoist makes possible dumping angles up to 65°. This feature is the result of the "jack-knife" principle in the design of the raising arms. The location of the truck hinges at the end of the body gives a high tail gate ground clearance.

The body may be held at any dumping angle by means of the worm and worm wheel. The worm as well as the gears are enclosed and operate in oil. The body is lowered mechanically. The new Heil Mechanical Hoist allows all of the space back of the truck cab to be used for pay load.

Construction Features

Reverse mechanism is integral with hoist proper. Worm and pinion gears made of SAE 10-20 Steel carbonized and hardened, worm wheel of phosphor bronze. Worm is mounted on radial thrust ball bearings. Positive, automatic throw-out device. Hoist has three-point suspension.

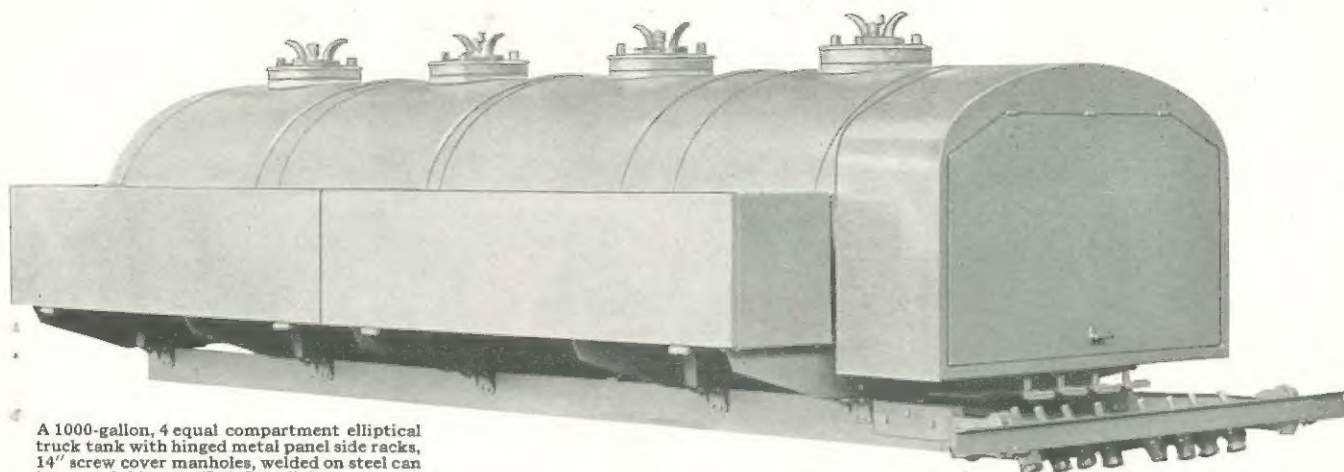


Here are eight features of the new Heil Mechanical Hoist:

1. High dumping angle.
2. High tail gate ground clearance.
3. Positive mechanical operation.
4. Lightness in weight — approximate weight for 3½ to 5-ton jobs, 500 pounds.
5. Operation is not affected by heat or cold.
6. Body can be held in any position.
7. Hoist lowers mechanically while truck is moving forward.
8. Low mounting. This unit has the lowest mounting of any mechanical hoist on the market today. (Can be 11" on some trucks).

(For Prices See Table No. 1 on Price List.)

BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS



A 1000-gallon, 4 equal compartment elliptical truck tank with hinged metal panel side racks, 14" screw cover manholes, welded on steel can box, steel hinged "Lift-Lock" Bumper, etc. This is one of the hundreds of Heil Tanks in the service of the Texas Company.

Heil Compartment Truck Tank

THE Heil Co., pioneer tank builders, manufacture a complete line of compartment truck tanks for the oil jobbing industry. If it's a 2500-gallon tank or a 300-gallon tank for the Ford — Heil makes it.

Heil compartment truck tanks, manufactured according to certain specifications are custom-built in regard to shape and size. The dimensions vary to suit gallonage and shape of tank desired. Certain standardized tanks are carried in stock for 1 to 1½ ton trucks. They are the 300-, 400- and 500-gallon tanks, each of 3 compartments.

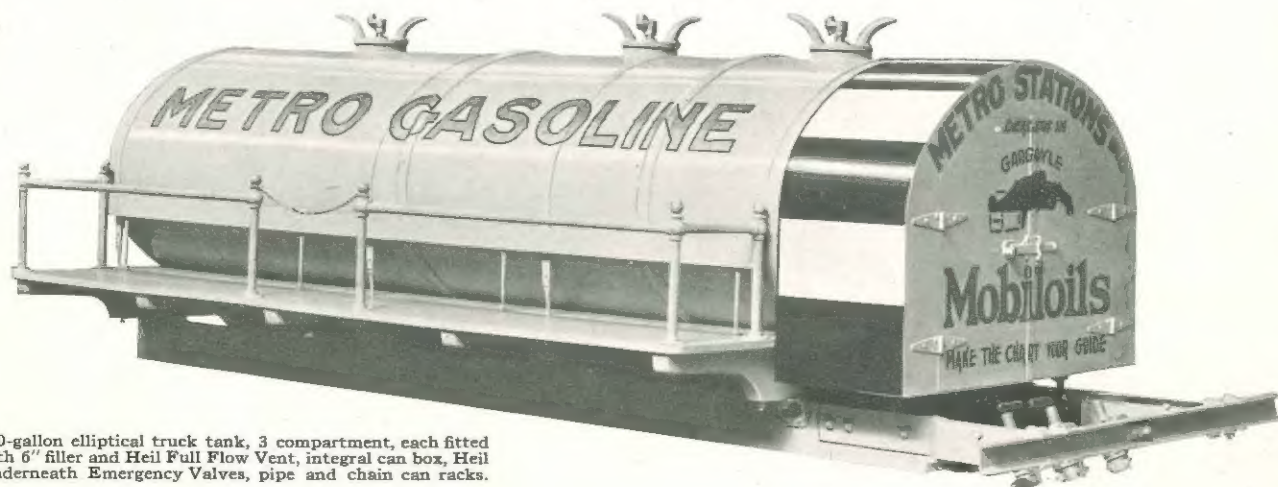
A standard Heil Truck Tank consists of either an elliptical or semi-rectangular tank of the gallonage

and compartments desired, mounted on steel wood-filled cross members fitted with hinged metal panel can racks (wood board or "piping and chain" optional); can box with top hinged or side-swing doors, 1½" or 2" piping and faucets; hinged "lift-lock" bumper, all assembled together with "U" bolts ready for attaching to chassis and painted one coat of rust-proof lead.

Tanks are welded by the electric arc process. They are thoroughly tested by the cold water test and hydrostatic pressure. Every part is inspected before being assembled. Each tank is completely equipped to make its operation economical and efficient.

Write for our Truck Tank Catalog and prices. Specifications for special tanks will be furnished on request.

(Prices on Request.)



700-gallon elliptical truck tank, 3 compartment, each fitted with 6" filler and Heil Full Flow Vent, integral can box, Heil Underneath Emergency Valves, pipe and chain can racks.

BE SURE IT'S A HEIL BODY — BEWARE OF IMITATIONS

+ 47



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